

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 8

1595 Wynkoop Street DENVER, CO 80202-1129 Phone 800-227-8917 http://www.epa.gov/region08

MAY 0 5 2014

Ref: 8ENF-UFO

### CERTIFIED LETTER 7008-3230-0003-0727-5324 RETURN RECEIPT REQUESTED

Mr. Les Farnsworth, District Supervisor Petroglyph Operating Company, Inc. 4116 W 3000 S Ioka Lane P.O. Box 607 Roosevelt, UT 84066

Re: Underground Injection Control (UIC)

Notice of Change in Well Status and Notice of Violation:

Overdue Mechanical Integrity Demonstration

Ute Tribal 21-12 Well

EPA Well ID # UT20736-06479

Antelope Creek Field Duchesne County, UT

Dear Mr. Farnsworth:

In reviewing the Annual Monitoring Report (AMR) for the well referenced above, the Environmental Protection Agency (EPA) determined that Petroglyph Operating Company, Inc. has not been injecting into this well since October, 2011. If a well has not been injecting for two years or more, it is considered to be in a Temporarily Abandoned status and as such, is required to be plugged and abandoned or to demonstrate mechanical integrity at least every two years. Petroglyph has failed to conduct a timely required mechanical integrity test (MIT). Our records show that the last MIT was conducted on January 20, 2010. Petroglyph was required to conduct an MIT no later than October 1, 2013 (two years from the last date of injection). Pursuant to Title 40 of the Code of Federal Regulations Section 146.23(b)(3) (40 C.F.R. § 146.23(b)(3)) and the Part II of the UIC permit for this well, Petroglyph is required to demonstrate mechanical integrity at least every two years. Petroglyph's failure to conduct a timely required mechanical integrity demonstration is a violation of this requirement.

This well has been updated to Temporarily Abandoned status in the EPA UIC database, effective October 1, 2011. Petroglyph must notify EPA before resuming injection into this well.

Within thirty (30) days of receipt of this letter, please respond in writing describing: 1) what action has been taken to correct this situation; 2) how you intend to prevent any recurrence in the future; or 3) if you believe the tree to the future; by the tree to the future of the future of the future of the future of the future.

Failure to comply with a UIC permit, or the UIC regulations found at 40 C.F.R. Parts 144 through 148, constitutes one or more violations of the Safe Drinking Water Act, 42 U.S.C. § 300h. Such non-compliance may subject you to formal enforcement by the EPA, as codified at 40 C.F.R. Part 22.

If you have any questions concerning this letter, you may contact Sarah Roberts at (303) 312-7056. Please direct all correspondence to the attention of Sarah Roberts at Mail Code 8ENF-UFO.

Sincerely,

Mark Chalfant, Acting Director

UIC/FIFRA/OPA Technical Enforcement Programs

cc:

Gordon Howell, Chairman Uintah & Ouray Business Committee P.O. Box 190 Fort Duchesne, Utah 84026

Reannin Tapoof, Executive Assistant Uintah & Ouray Business Committee P.O. Box 190 Fort Duchesne, Utah 84026

Tony Small, Councilman Uintah & Ouray Business Committee P.O. Box 190 Fort Duchesne, Utah 84026

Phillip Chimburas, Councilman Uintah & Ouray Business Committee P.O. Box 190 Fort Duchesne, Utah 84026 Ronald Wopsock, Vice-Chairman Uintah & Ouray Business Committee P.O. Box 190 Fort Duchesne, Utah 84026

Stewart Pike, Councilman Uintah & Ouray Business Committee P.O. Box 190 Fort Duchesne, Utah 84026

Bruce Ignacio, Councilman Uintah & Ouray Business Committee P.O. Box 190 Fort Duchesne, Utah 84026

Manuel Myore, Director of Energy, Minerals and Air Programs Ute Indian Tribe P.O. Box 190 Fort Duchesne, Utah 84026

John Rogers Utah Division of Oil, Gas and Mining P.O. Box 145801 Salt Lake City, Utah 84114 bcc: Randy Brown (8P-TA)

	Va-y-gag
SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	A. Signature  Agent  Addressee  B. Received by (Printed Name)  C. Date of Delivery  D. Is delivery address different from item 17?   Yes
1. Article Addressed to:  MAY 0 6 2014  Mr. Les Farnsworth, District Supv.  Petroglyph Operating Company, Inc.	If YES, enter delivery address below:
4116 W 3000 S loka Lane P.O. Box 607 Roosevelt, UT 84066	3. Service Type  ☐ Certified Mail ☐ Registered ☐ Insured Mail ☐ C.O.D.
1100001011, 01 01000	4. Restricted Delivery? (Extra Fee) ☐ Yes
2. Article Number 7008	3230 0003 0727 5324
PS Form 3811, February 2004 Domestic Re	turn Receipt 102595-02-M-1540

누근	CER	TIFIE	Service TM  O MAIL TM REC  Only; No Insurance C	CEIPT Coverage Provided)		
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0003	Returr (Endorsem	n Receipt Fee ent Required)		Postmark Here		
	Restricte (Endorsen	Mr. Les	Farnsworth, Dis	trict Supv.		
323	Total Po		ph Operating Co			
-0	4116 W 3000 S loka Lane P.O. Box 607					
700	Street, At or PO Box Roosevelt, UT 84066					
	City, State,	ZIP+4				
	PS Form 3	800. August 2	2006	See Reverse for Instru	ctions	



# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 8

1595 Wynkoop Street
DENVER, CO 80202-1129
Phone 800-227-8917
http://www.epa.gov/region08

Ref: 8ENF-UFO CONCURRENCE COPY

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EPA Well ID # UT20736-06479

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Failure to comply with a UIC permit, or the UIC regulations found at 40 C.F.R. Parts 144 through 148, constitutes one or more violations of the Safe Drinking Water Act, 42 U.S.C. § 300h. Such non-compliance may subject you to formal enforcement by the EPA, as codified at 40 C.F.R. Part 22.

If you have any questions concerning this letter, you may contact Sarah Roberts at (303) 312-7056. Please direct all correspondence to the attention of Sarah Roberts at Mail Code 8ENF-UFO.

Sincerely,

Mark Chalfant, Acting Director UIC/FIFRA/OPA Technical Enforcement Programs

cc: Gordon Howell, Chairman
Uintah & Ouray Business Committee
P.O. Box 190
Fort Duchesne, Utah 84026

Reannin Tapoof, Executive Assistant Uintah & Ouray Business Committee P.O. Box 190 Fort Duchesne, Utah 84026

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Manuel Myore, Director of Energy, Minerals and Air Programs Ute Indian Tribe P.O. Box 190 Fort Duchesne, Utah 84026

John Rogers Utah Division of Oil, Gas and Mining P.O. Box 145801 Salt Lake City, Utah 84114

bcc: Randy Brown (8P-TA)

# **Inspection Report For Well: UT20736 - 06479**

U.S. Environmental Protection Agency Underground Injection Control Program, 8ENF-T 999 18th Street, Suite 300, Denver, CO 80202-2466

This form was printed on 9/24/2013

	This form was	s printed on 9/24/2013	12	,
INSPECTOR(S): Lead:	Roberts, Sarah		Date: 10	
Other	s: Ajayi, Christopher		Time:	20, 18 am / pm
OPERATOR (only if diffe	erent):			
REPRESENTATIVE(S):		had Steri	asca	
	PRE-INSPE	CTION REVIE	W	
Petroglyph Opera	ating Company, Inc			
Well Name: Well Type: Operating Status: Oil Field: Location: Indian Country:	Ute Tribal 21-12 Enhanced Recovery (2R) AC (ACTIVE) as of 1/25/200 Antelope Creek (Duchesne) NWSW S21 T5S R3W X, Uintah and Ouray	5		
Last Inspection: Last MIT:	8/28/2012 Pass 1/20/2010	Allowable Inj Pressur Annulus Pressure Fr		(
INSPECTION TYPE: (Select One)	Construction / Workover Plugging Post-Closure	Response to Con Routine Witness MIT	Date	127/13
OBSERVED VALUES:	1 V P	/ L: psig	Cauca Oumani	EPA
Tubing Gauge:	Yes Pressure: <u>U:</u> No Gauge Range:	Scalor psig	Gauge Owner:	Operator
Annulus Gauge:	Yes Pressure: No Gauge Range:	opened psig	Gauge Owner:	EPA Operator
Bradenhead Gauge:	Yes Pressure: No Gauge Range:	psig psig	Gauge Owner:	EPA Operator
Pump Gauge:	Yes Pressure:  No Gauge Range:	psig psig	Gauge Owner:	EPA Operator
Operating Status: (Select One)			Plugged and Abandon Under Construction	ed
III	e page 2 for photos, co	omments, and si	U2 Ente	12/17/13 2/2

Page 1 of 2

# Inspection Report For Well: UT20736 - 06479 (PAGE 2)

PHOTOGRAPHS:							
	No						
Comments and site	conditions	observed du	ring inspec	tion:			
GPS: GPS File ID: _							
		1	JA				
Signature of EPA Inspec	tor(s):			Minn	my		
Data	a Entry		Compliance	Staff	Hard Copy	y Filing	

# NOTICE OF INSPECTION



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION VIII, 999 18TH STREET - SUITE 500 DENVER, COLORADO 80202-2405

Date: 12/16/13 Hour: 8:00a	Drinking Water Act (42 U.S.C. \$300t et seg.)
Firm Name:	Petrochyph Operating Inc.
Firm Address:	ROOFFIELD, Antelope Creek Of Field

#### REASON FOR INSPECTION:

For the purpose of inspecting records, files, papers, processes, controls and facilities, and obtaining samples to determine whether the person subject to an applicable underground injection control program has acted or is acting in compliance with the Safe Drinking Water Act and any applicable condition of permit or rule authorization.

SECTION 1445(b) of the SAFE DRINKING WATER ACT is quoted below:

Section 1445(b)(1): Except as provided in Paragraph (2), the Administrator, or representatives of the Administrator duly designated by him, upon presenting appropriate credentials, and a written notice to any supplier of water or other person subject to (a), or person subject (A) a national primary drinking water regulation prescribed under Section 1412(B) an applicable Underground Injection Control Program, or (C) any requirement to monitor an unregulated contaminant pursuant to subsection (a), or person in charge of any of the property of such supplier or other person referred to in clause (A), (B), or (C), is authorized to enter any establishment, ... facility, or other property of such supplier or other person in order to determine whether such supplier or other person has acted or is acting in compliance with this title, including for this purpose, inspection, at reasonable times, of records, files, papers, processes, controls, and facilities, or in order to test any feature of a public water system, including its raw water The Administrator or the Comptroller General (or source. any representative designated by either) shall have access for the purpose of audit and examination to any records, reports, or information of a grantee which are required to be maintained under subsection (a) or which are pertinent to any financial assistance under this title.

Inspector's Name & Title (Print)

Inspector's Signature



#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

999 18<sup>TH</sup> STREET - SUITE 300 DENVER, CO 80202-2466 Phone 800-227-8917 http://www.epa.gov/region08

JAN 25 2005

Ref: 8P-W-GW

# CERTIFIED MAIL RETURN RECEIPT REQUESTED

Mr. Matt Corser District Engineer Petroglyph Operating Company, Inc. 4116 W 3000 South Ioka Lane P.O. Box 607 Roosevelt, UT 84066

RE: AUTHORIZATION TO INJECT

Ute Tribal No. 21-12

EPA Well ID: UT20736-06479

EPA UIC Area Permit No. UT20736-00000

Dear Mr. Corser:

Thank you for submitting information pertaining to the newly constructed or converted Ute Tribal No. 21-12 enhanced recovery injection well to the Region 8 Ground Water Program office of the Environmental Protection Agency (EPA). The "Prior To Commencing Injection" requirements of <u>Authorization for Additional Well UT20736-06479</u>, for the Ute Tribal No. 21-12 injection well, required well owner and operator Petroglyph Operating Company, Inc. to submit the following information to the Director:

- A successful mechanical integrity test (MIT) demonstrating Part I Internal MI,
- Pore pressure calculation of the proposed injection zone, and
- completed EPA Form No. 7520-12.

All required information has been submitted, and has been reviewed and approved by the EPA. Therefore, effective upon your receipt of this letter, Administrative approval hereby is granted for injection into the Ute Tribal No. 21-12 enhanced recovery injection well under the

conditions of <u>Authorization for Additional Well UT20736-06479</u> and EPA UIC Area Permit UT20736-00000 and relevant modifications as issued.

As of this approval, responsibility for permit compliance and enforcement is transferred to the Region 8 UIC Technical Enforcement Program office. Therefore, please direct all future notification, reporting, monitoring and compliance correspondence to the following address, referencing your well and UIC Permit number on all correspondence regarding this well.

Technical Enforcement Program - UIC U.S. EPA Region 8, Mail Code 8ENF-UFO 999 18th Street, Suite 300 Denver, Colorado 80202-2466

The Director has determined that the maximum allowable surface injection pressure (MAIP) for the Ute Tribal No. 21-12 shall not exceed <u>1898</u> psig. Please be reminded that it is the responsibility of the owner/operator to be aware of, and to comply with, all conditions of <u>Authorization for Additional Well UT20736-06479</u> and EPA UIC Area Permit UT20736-00000 and relevant modifications as issued.

If you have any questions regarding this Authorization, please call Dan Jackson of my staff at (303) 312-6155. For questions regarding notification, testing, monitoring, reporting or other Permit requirements, the UIC Technical Enforcement Program may be reached by calling (800) 227-8917.

Sincerely,

Sandra A. Stavnes

Director

Ground Water Program

cc: Maxine Natchees, Chairperson
Uintah & Ouray Business Committee
Ute Indian Tribe
P.O. Box 190
Fort Duchesne, UT 84026

Chester Mills BIA - Uintah & Ouray Indian Agency P.O. Box 130 Fort Duchesne, UT 84026 Elaine Willie Environmental Coordinator Ute Indian Tribe P.O. Box 460 Fort Duchesne, UT 84026

Gil Hunt Technical Services Manager Utah Division of Oil, Gas, and Mining 1594 West North Temple - Suite 1220 Salt Lake City, UT 84114-5801

Ed Forsman Sr. Petroleum Engineer BLM - Vernal District 170 South 500 East Vernal, UT 84078

Nathan Wiser, 8ENF-UFO

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY. 15
<ul> <li>Complete items 1, 2, and 3. Also complitem 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reviso that we can return the card to you.</li> <li>Attach this card to the back of the mails or on the front if space permits.</li> </ul>	erse	A. Signature  X
1. Art Addressed to: UTC Tribal 21- UT 20736-06478  Mr Matt Corser, District Engineer Petroglyph Operating Company, Inc. 4116 W 3000 S loka Lane	Ground Ware	Prisophydry address different from item 1?
Roosevelt, UT 84066  FWGW C JAN 2 9	1 2005 20 F	3 Service Type  Gertified Mail
2. Article Number (Transfer from service label)	3007	0320 0005 9389 5181
PS Form 3811, February 2004	omestic Retu	ırn Receipt 102595-02-M-15/

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. 6868 5000	Postage  Certified Fee  Return Receipt Fee (Endorsement Required)  Restricted Delivery Fee (Endorsement Required)	JAN 2 5 2005	
	Total Postage & Fees	\$	
7001 0320	Street, Apt. No.; or PO Box No. City, State, ZIP+4	Mr Matt Corser, District Engineer Petroglyph Operating Company, Inc. 4116 W 3000 S loka Lane Roosevelt, UT 84066	
•	PS Form 3800, January 2	2001 See Reverse for Ins	ille die les



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

**REGION 8** 999 18TH STREET - SUITE 300 DENVER, CO 80202-2466 Phone 800-227-8917 http://www.epa.gov/region08

JAN 25 2005

Ref: 8P-W-GW

CONCURRENCE COPY

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Printed on Recycled Paper

21-12

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Sincerely,

Sandra A. Stavnes Director Ground Water Program

cc: Maxine Natchees, Chairperson
Uintah & Ouray Business Committee
Ute Indian Tribe
P.O. Box 190
Fort Duchesne, UT 84026

Chester Mills BIA - Uintah & Ouray Indian Agency P.O. Box 130 Fort Duchesne, UT 84026 Elaine Willie Environmental Coordinator Ute Indian Tribe P.O. Box 460 Fort Duchesne, UT 84026

Gil Hunt Technical Services Manager Utah Division of Oil, Gas, and Mining 1594 West North Temple - Suite 1220 Salt Lake City, UT 84114-5801

Ed Forsman Sr. Petroleum Engineer BLM - Vernal District 170 South 500 East Vernal, UT 84078

Nathan Wiser, 8ENF-UFO

**≎EPA** 

United States Environmental Protection Agency Washington, DC 20460

# ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT

Name and Address of	Existing Permittee
Petroglyph Operating	Company, Inc. 2258
P.O. Box 7608	
Boise, Idaho 83709	

Name and Address of Surface Owner Ute Indian Tribe P.O. Box 70

Ft. Duchesne, Utah, 84026

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Constitution	-		-	+	+	
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Permit Number State County UT2736-06479 Utah Duchesne Surface Location Description 1/4 of NW 1/4 of SW 1/4 of Section 21 Township 5S Location 1980 ft. frm (N/S) S Line of quarter section and 1060ft, from (E/W) W Line of quarter section. TYPE OF PERMIT WELL ACTIVITY Individual Brine Disposal X Enhanced Recovery X Area Number of Wells 111 Hydrocarbon Storage Well Number UTE TRIBAL 21-12 Lease Name Ute Indian Tribe

		INJECTION	INJECTION PRESSURE TOTAL VOLUME INJECTED			TUBING CASING A (OPTIONAL M	
MONTH Y	ÆAR.	AVERAGE PSIG	MAXIMUM PSIG	BBL	MCF	MINIMUM PSIG	MAXIMUM PSIG
January	16	387	390	0		0	0
February	16	394	400	0		0	0
March	16	404	414	0		0	0
April	16	408	413	0		0	0
May	16	404	407	0		0	0
June	16	410	414	0		0	0
July	16	410	423	0		0	0
August	16	412	418	0		0	0
September	16	419	421	0		0	0
October	16	411	417	0		0	0
November	16	414	421	0		0	0
December	16	413	421	0		0	0

#### Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibliity of fine and imprisonment. (Ref. 40 CFR 144.32)

Name	and	Official	Title	(Please	type	or	print)

Chad Stevenson, Water Facilities Supervisor CB

Signature

03/21/2017

EPA Form 7520-11 (Rev. 12-11)

2

Pnter

4/5/17

#### **Multi-Chem Analytical Laboratory**

1553 East Highway 40 Vernal, UT 84078

Units of Measurement: Standard



**Water Analysis Report** 

**Production Company:** 

PETROGLYPH OPERATING CO INC - EBUS

Well Name:

UTE TRIBAL 21-12 INJ, DUCHESNE

Sample Point:

Well Head

Sample Date: Sample ID: 1/6/2017 WA-345327 vater Analysis Report

Sales Rep: James Patry

Lab Tech:

Kaitlyn Natelli

Scaling potential predicted using ScaleSoftPitzer from Brine Chemistry Consortium (Rice University)

Sample Specif	fics
Test Date:	1/26/2017
System Temperature 1 (°F):	300
System Pressure 1 (psig):	2000
System Temperature 2 (°F):	130
System Pressure 2 (psig):	50
Calculated Density (g/ml):	1.0051
pH:	9.10
Calculated TDS (mg/L):	11385.08
CO2 in Gas (%):	
Dissolved CO <sub>2</sub> (mg/L)):	0.00
H <sub>2</sub> S in Gas (%):	
H2S in Water (mg/L):	25.00
Tot. SuspendedSolids(mg/L):	
Corrosivity(LanglierSat.Indx)	0.00
	0.00
Alkalinity:	

	Analysis @ Prop	perties in Sample Specifics	
Cations	mg/L	Anions	mg/L
Sodium (Na):	3921.19	Chloride (CI):	4500.00
Potassium (K):	36.66	Sulfate (SO4):	40.00
Magnesium (Mg):	9.47	Bicarbonate (HCO3):	2806.00
Calcium (Ca):	19.56	Carbonate (CO3):	
Strontium (Sr):	5.94	Hydroxide(HO):	
Barium (Ba):	16.40	Acetic Acid (CH3COO)	
Iron (Fe):	2.55	Propionic Acid (C2H5COO)	
Zinc (Zn):	0.77	Butanoic Acid (C3H7COO)	
Lead (Pb):	0.01	Isobutyric Acid ((CH3)2CHCOO)	
Ammonia NH3:		Fluoride (F):	
Manganese (Mn):	0.11	Bromine (Br):	
Aluminum (Al):	0.05	Silica (SiO2):	26.42
Lithium (Li):	4.08	Calcium Carbonate (CaCO₃):	
Boron (B):	7.64	Phosphates (PO4):	13.12
Silicon (Si):	12.35	Oxygen (O2):	

Notes:

#### (PTB = Pounds per Thousand Barrels)

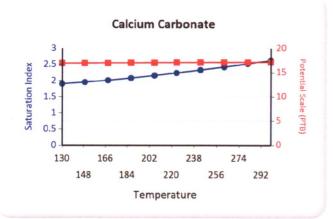
			cium oonate	Barium	n Sulfate		ron Ifide		ron onate		psum 4·2H2O		estite SO4		alite aCl		inc Ifide
Temp (°F)	PSI	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ
130.00	50.00	1.90	16.89	1.06	8.64	4.35	1.41	3.06	1.85	0.00	0.00	0.00	0.00	0.00	0.00	11.42	0.40
149.00	267.00	1.95	16.91	0.97	8.37	4.28	1.41	3.14	1.85	0.00	0.00	0.00	0.00	0.00	0.00	11.15	0.40
168.00	483.00	2.01	16.94	0.89	8.12	4.23	1.41	3.22	1.85	0.00	0.00	0.00	0.00	0.00	0.00	10.91	0.40
187.00	700.00	2.08	16.96	0.83	7.90	4.21	1.41	3.30	1.85	0.00	0.00	0.00	0.00	0.00	0.00	10.70	0.40
206.00	917.00	2.16	16.99	0.79	7.73	4.21	1.41	3.37	1.85	0.00	0.00	0.00	0.00	0.00	0.00	10.51	0.40
224.00	1133.00	2.24	17.01	0.76	7.60	4.23	1.41	3.44	1.85	0.00	0.00	0.00	0.00	0.00	0.00	10.34	0.40
243.00	1350.00	2.33	17.03	0.75	7.53	4.26	1.41	3.50	1.85	0.00	0.00	0.00	0.00	0.00	0.00	10.19	0.40
262.00	1567.00	2.42	17.05	0.74	7.50	4.30	1.41	3.55	1.85	0.00	0.00	0.00	0.00	0.00	0.00	10.06	0.40
281.00	1783.00	2.52	17.06	0.74	7.51	4.35	1.41	3.59	1.85	0.00	0.00	0.00	0.00	0.00	0.00	9.94	0.40
300.00	2000.00	2.62	17.08	0.75	7.56	4.41	1.41	3.63	1.85	0.00	0.00	0.00	0.00	0.00	0.00	9.84	0.40

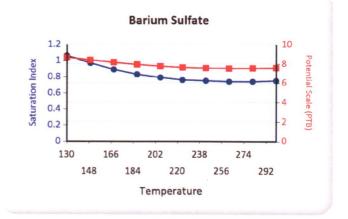


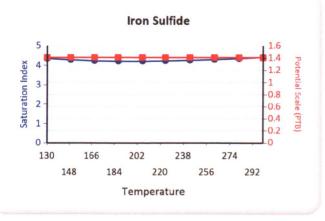
		Hemihydrate CaSO4~0.5H2O		Anhydrate CaSO4		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
Temp (°F)	PSI	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ
130.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	2.23	0.52	11.24	0.00	6.86	18.81	3.98	29.10	12.88	1.98
149.00	267.00	0.00	0.00	0.00	0.00	0.00	0.00	2.43	0.52	10.80	0.00	7.53	18.85	4.32	29.35	13.27	1.98
168.00	483.00	0.00	0.00	0.00	0.00	0.00	0.00	2.60	0.52	10.40	0.00	8.18	18.88	4.67	29.48	13.66	1.98
187.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	2.76	0.52	10.04	0.00	8.83	18.90	5.01	29.54	14.06	1.98
206.00	917.00	0.00	0.00	0.00	0.00	0.00	0.00	2.90	0.52	9.72	0.00	9.46	18.91	5.35	29.56	14.47	1.98
224.00	1133.00	0.00	0.00	0.00	0.00	0.00	0.00	3.03	0.52	9.43	0.00	10.07	18.91	5.69	29.57	14.87	1.98
243.00	1350.00	0.00	0.00	0.00	0.00	0.00	0.00	3.14	0.52	9.17	0.00	10.66	18.92	6.01	29.57	15.26	1.98
262.00	1567.00	0.00	0.00	0.00	0.00	0.00	0.00	3.23	0.52	8.93	0.00	11.22	18.92	6.33	29.57	15.64	1.98
281.00	1783.00	0.00	0.00	0.00	0.00	0.00	0.00	3.30	0.52	8.72	0.00	11.75	18.92	6.63	29.57	16.01	1.98
300.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	3.36	0.52	8.52	0.00	12.24	18.92	6.91	29.57	16.35	1.98

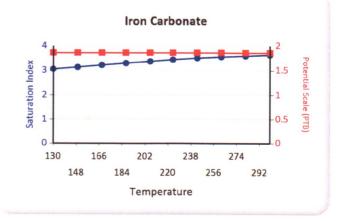
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide Mg Silicate Ca Mg Silicate Fe Silicate

These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide Mg Silicate Ca Mg Silicate Fe Silicate

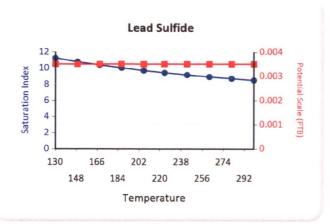


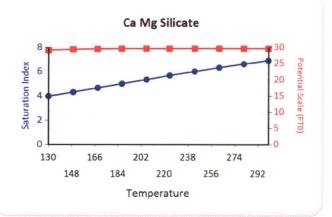


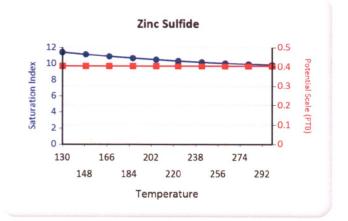


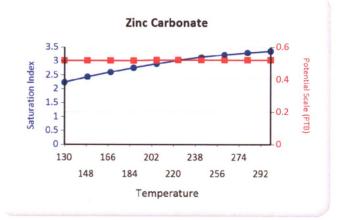


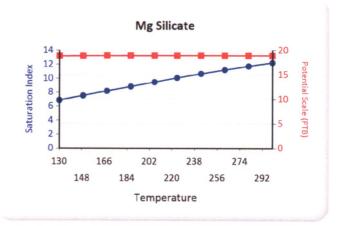




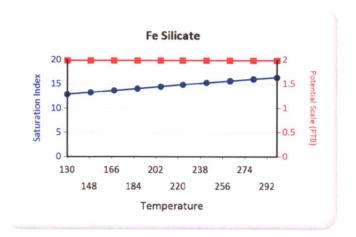












United States Environmental Protection Agency **SEPA** Washington, DC 20460 ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT Name and Address of Existing Permittee Petroglyph Operating Company, Inc. 2258 Name and Address of Surface Owner P.O. Box 7608 P.O. Box 70 Boise, Idaho 83709 Ft. Duchesne, Utah, 84026 State County Permit Number Locate Well and Outline Unit on UT2736-04434 06479 Utah Duchesne Section Plat - 640 Acres Surface Location Description 1/4 of NW 1/4 of SW 1/4 of Section 21 Township 5S Range 3W Locate well in two directions from nearest lines of guarter section and drilling unit Location 1980 ft. frm (N/S) S Line of quarter section 2 Entered and 1060ft. from (E/W) W Line of quarter section. WELL ACTIVITY TYPE OF PERMIT 210 Individual Brine Disposal X Enhanced Recovery Number of Wells 111 Hydrocarbon Storage Well Number UTE TRIBAL 21-12 Lease Name Ute Indian Tribe S TUBING - CASING ANNULUS PRESSURE (OPTIONAL MONITORING) INJECTION PRESSURE TOTAL VOLUME INJECTED MAXIMUM PSIG MONTH YEAR AVERAGE PSIG MAXIMUM PSIG MINIMUM PSIG BBI 15 308 308 0 0 0 January 0 0 310 0 February 15 311 0 0 15 309 0 March 312 0 0 April 15 310 315 0 May 15 322 326 0 0 0 15 316 321 0 0 0 June 0 0 0 15 343 351 July 0 0 August 15 352 352 0 September 15 349 355 0 0 0 15 351 358 0 0 0 October November 15 380 390 0 0 0 0 0 0 December 15 385 388 Certification I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibliity of fine and imprisonment. (Ref. 40 CFR 144.32) Name and Official Title (Please type or print) **Date Signed** Signature 02/08/2016 Chad Stevenson, Water Facilities Supervisor CDEEN BILLE CBI

TAB

#### **Multi-Chem Analytical Laboratory**

1553 East Highway 40 Vernal, UT 84078

Units of Measurement: Standard



**Water Analysis Report** 

Production Company: PETROGLYPH OPERATING CO INC - EBUS

Well Name: UTE TRIBAL 21-12 INJ, DUCHESNE

Sample Point: Well Head
Sample Date: 1/6/2016
Sample ID: WA-327625

Sales Rep: James Patry
Lab Tech: Gary Peterson

Scaling potential predicted using ScaleSoftPitzer from Brine Chemistry Consortium (Rice University)

Sample Specif	fics
Test Date:	1/7/2016
System Temperature 1 (°F):	60
System Pressure 1 (psig):	2000
System Temperature 2 (°F):	180
System Pressure 2 (psig):	50
Calculated Density (g/ml):	1.0017
pH:	8.50
Calculated TDS (mg/L):	6518.17
CO2 in Gas (%):	
Dissolved CO <sub>2</sub> (mg/L)):	0.00
H <sub>2</sub> S in Gas (%):	
H2S in Water (mg/L):	0.00
Tot. SuspendedSolids(mg/L):	
Corrosivity(LanglierSat.Indx)	0.00
Alkalinity:	

	Analysis @ Prop	perties in Sample Specifics	
Cations	mg/L	Anions	mg/L
Sodium (Na):	2318.35	Chloride (CI):	3000.00
Potassium (K):	8.58	Sulfate (SO4):	30.00
Magnesium (Mg):	11.84	Bicarbonate (HCO3):	1098.00
Calcium (Ca):	28.49	Carbonate (CO3):	
Strontium (Sr):	2.46	Acetic Acid (CH <sub>3</sub> COO)	
Barium (Ba):	7.84	Propionic Acid (C2H5COO)	
Iron (Fe):	2.24	Butanoic Acid (C3H7COO)	
Zinc (Zn):	0.30	Isobutyric Acid ((CH3)2CHCOO)	
Lead (Pb):	0.63	Fluoride (F):	
Ammonia NH3:		Bromine (Br):	
Manganese (Mn):	0.16	Silica (SiO2):	9.28
Aluminum (AI):	0.01	Calcium Carbonate (CaCO3):	
Lithium (Li):	1.01	Phosphates (PO4):	7.44
Boron (B):	0.59	Oxygen (O2):	
Silicon (Si):	4.34		

Notes: S=29.96

(PTB = Pounds per Thousand Barrels)

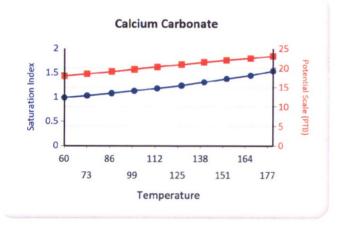
			cium oonate	Barium	n Sulfate		on Ifide		ron onate		osum 4-2H2O		estite SO4		alite aCl		inc Ifide
Temp (°F)	PSI	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ
180.00	50.00	1.54	23.12	0.66	3.49	0.00	0.00	2.53	1.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.00	267.00	1.45	22.55	0.68	3.54	0.00	0.00	2.43	1.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153.00	483.00	1.38	22.06	0.72	3.62	0.00	0.00	2.33	1.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.00	700.00	1.31	21.52	0.76	3.72	0.00	0.00	2.23	1.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.00	917.00	1.24	20.94	0.81	3.82	0.00	0.00	2.14	1.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
113.00	1133.00	1.18	20.34	0.88	3.94	0.00	0.00	2.04	1.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	1350.00	1.13	19.73	0.96	4.06	0.00	0.00	1.94	1.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.00	1567.00	1.08	19.12	1.05	4.17	0.00	0.00	1.85	1.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
73.00	1783.00	1.03	18.55	1.16	4.28	0.00	0.00	1.75	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60.00	2000.00	0.99	18.01	1.29	4.38	0.00	0.00	1.66	1.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

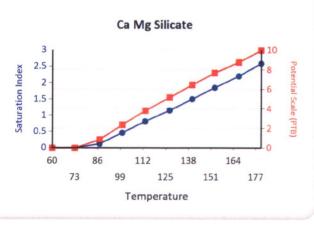


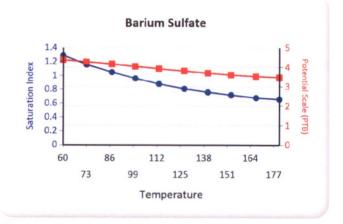
		Hemihydrate CaSO4~0.5H2O		Anhydrate CaSO4		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
Temp (°F)	PSI	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ
180.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	1.63	0.20	0.00	0.00	5.29	17.81	2.59	9.98	10.19	1.74
167.00	267.00	0.00	0.00	0.00	0.00	0.00	0.00	1.47	0.20	0.00	0.00	4.63	15.79	2.20	8.78	9.69	1.74
153.00	483.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32	0.19	0.00	0.00	4.03	14.06	1.85	7.68	9.27	1.74
140.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.19	0.00	0.00	3.42	12.22	1.50	6.48	8.84	1.74
127.00	917.00	0.00	0.00	0.00	0.00	0.00	0.00	0.98	0.18	0.00	0.00	2.81	10.30	1.15	5.19	8.42	1.74
113.00	1133.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	0.17	0.00	0.00	2.20	8.30	0.81	3.82	8.01	1.74
100.00	1350.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61	0.15	0.00	0.00	1.58	6.20	0.46	2.38	7.61	1.74
87.00	1567.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.12	0.00	0.00	0.95	3.97	0.12	0.84	7.21	1.74
73.00	1783.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.07	0.00	0.00	0.33	1.56	0.00	0.00	6.82	1.73
60.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.44	1.72

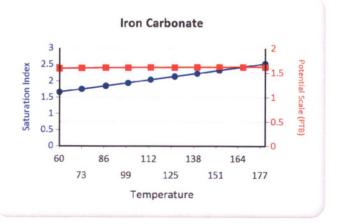
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Carbonate Zinc Carbonate Mg Silicate Ca Mg Silicate Fe Silicate

These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Barium Sulfate Iron Carbonate Fe Silicate

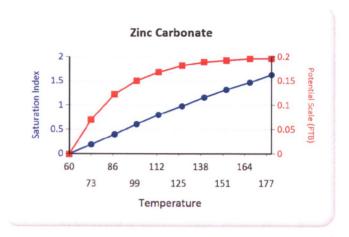


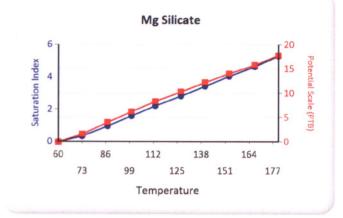


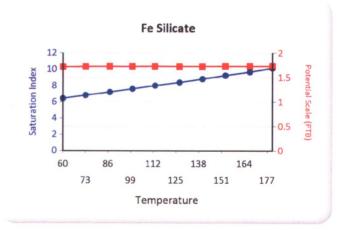








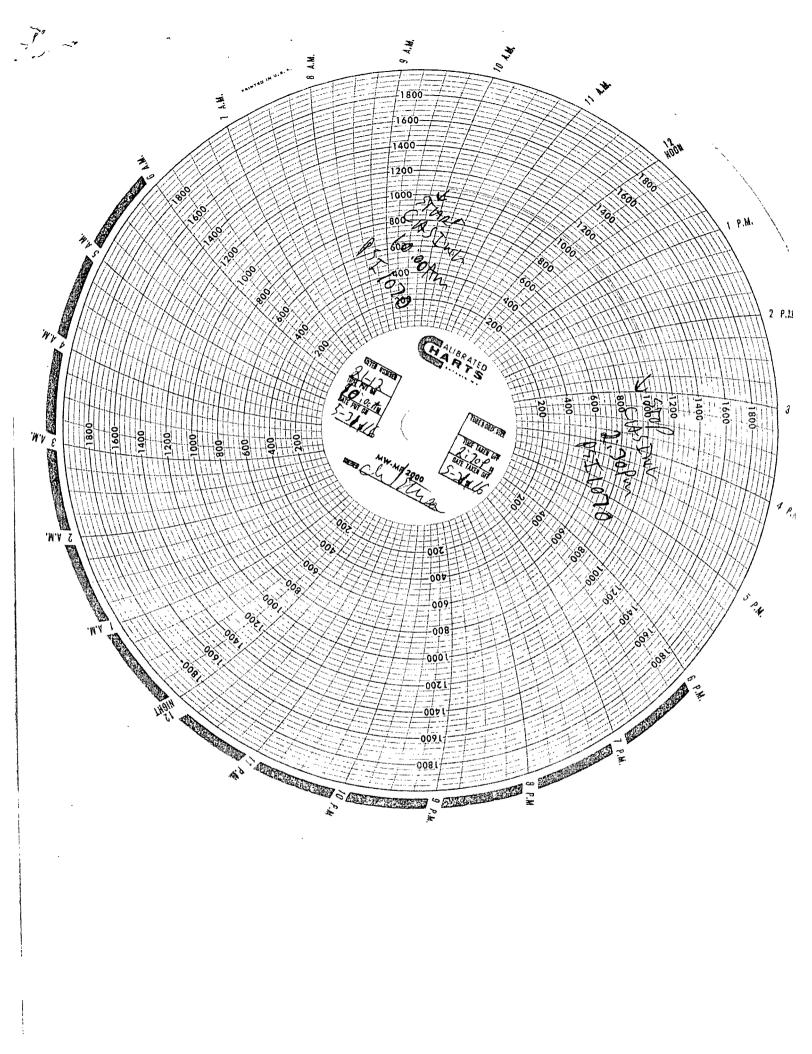




# Mechanical Integrity Test UT20736-06479 Tubing/Casing Annulus Pressure Test U.S. Environmental Protection Agency Underground Injection Control Program 1595 Wynkoop Street, Denver, CO 80202

EPA Witness:  Test conducted by: Ch Others present:	YADSTEVENSON		1/6_
Well Name: 21-12 Field: #WT&LOPE C Location: 21-12 Se Operator: #ETROCLY Last MIT: /	PUT EMERY		Status: AC TA UC  State: U  PSIG
Well injecting during tes Pre-test annulus pressu		[ ] Yes [ ] No	
MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING		PRESSURE	RECORD
Initial Pressure	702psig	psig	psig
End of test pressure	402psig	psig	psig
CASING / TUBING	ANNULUS	PRESSURE	RECORD
0 minutes	1670 psig	psig	psig
5 minutes	1070 psig	psig	psig
10 minutes	1070 psig	psig	psig
15 minutes	1070 psig	psig	psig
20 minutes	1070 psig	psig	psig
25 minutes	lo 70 psig	psig	psig
30 minutes	10 ) 0 psig	psig	psig
4/ L Hours minutes	// / psig	psig	psig
minutes	psig	psig	psig
Does the annulus pres		er the test? If Yes,	psig.

Initial \_\_\_\_



Well Number UTE TRIBAL 21-12

TUDING CASING ANNULUIS DOESSUDE

**ŞEPA** 

United States Environmental Protection Agency Washington, DC 20460

#### ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT

Name and Address of Existing Permittee Petroglyph Operating Company, Inc. 2258 P.O. Box 7608

Boise, Idaho 83709

Name and Address of Surface Owner Ute Indian Tribe

P.O. Box 70

Ft. Duchesne, Utah 84026

Locate Well and Outline Unit on Section Plat - 640 Acres

State	County	Permit Number
Utah	Duchesne	UT2736-06479
Surface Location Desc	AND THE RESERVE AND ADDRESS OF THE PARTY AND A	21 Township 5S Range 3W
	N/S) S Line of quarter section.	n
WELL ACTIVITY	TYPE OF PERMIT	
Brine Disposal	Individual	
X Enhanced Rec	overy X Area	
Hydrocarbon S	Storage Number of Wells	111

INJEC		INJECTION	PRESSURE	TOTAL VOLUM	IE INJECTED	TUBING CASING A (OPTIONAL M	
MONTH	YEAR	AVERAGE PSIG	MAXIMUM PSIG	BBL	MCF	MINIMUM PSIG	MAXIMUM PSIG
January	14	139	365	0		0	0
February	14	349	360	0		0	0
March	14	342	313	0		0	0
April	14	319	321	0		0	0
May	14	316	318	0	participants in the discount of the second o	0	0
June	14	314	314	0	The state of the s	0	0
July	14	307	308			0	0
August	14	310	310	0		0	0
Septembe	er 14	305	304	0		0	0
October	14	301	301	0		0	0
Novembe	r 14	305	308	0		0	0
Decembe	r 14	304	306	0		0	0

Lease Name Ute Indian Tribe

#### Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Chad Stevenson, Water Facilities Supervisor

Signature

Date Signed

2/10/2015

EPA Form 7520-11 (Rev. 12-08)

GREEN	BLUE	CBI
TAB	2	

#### **Multi-Chem Analytical Laboratory**

1553 East Highway 40 Vernal, UT 84078

A HALLIBURTON SERVICE

multi-chem<sup>a</sup>

Units of Measurement: Standard

## Water Analysis Report

**Production Company:** 

PETROGLYPH OPERATING CO INC - EBUS

Well Name:

**UTE TRIBAL 21-12 INJ, DUCHESNE** 

Sample Point:

WELLHEAD

Sample Date: Sample ID: 1/7/2015 WA-297539 Sales Rep: James Patry
Lab Tech: Gary Winegar

Scaling potential predicted using ScaleSoftPitzer from Brine Chemistry Consortium (Rice University)

Sample Specifics	
Test Date:	1/14/2015
System Temperature 1 (°F):	160
System Pressure 1 (psig):	1300
System Temperature 2 (°F):	80
System Pressure 2 (psig):	15
Calculated Density (g/ml):	1.0055
pH:	8.50
Calculated TDS (mg/L):	11511.46
CO2 in Gas (%):	
Dissolved CO2 (mg/L)):	0.00
H <sub>2</sub> S in Gas (%):	
H2S in Water (mg/L):	15.00

	Analysis @ Pro	perties in Sample Specifics	<b>工程制度上的标准</b>
Cations	mg/L	Anions	mg/L
Sodium (Na):	3996.27	Chloride (Cl):	4000.00
Potassium (K):	59.42	Sulfate (SO4):	494.00
Magnesium (Mg):	11.35	Bicarbonate (HCO3):	2562.00
Calcium (Ca):	31.38	Carbonate (CO3):	
Strontium (Sr):	6.19	Acetic Acid (CH₃COO)	
Barium (Ba):	3.78	Propionic Acid (C2H5COO)	
Iron (Fe):	28.05	Butanoic Acid (C3H7COO)	
Zinc (Zn):	291.87	Isobutyric Acid ((CH3)2CHCOO)	
Lead (Pb):	0.00	Fluoride (F):	
Ammonia NH3:		Bromine (Br):	
Manganese (Mn):	1.28	Silica (SiO2):	25.87

Notes:

B=7.98 Al=.2 Li=1.55

(PTB = Pounds per Thousand Barrels)

		Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO4-2H2O		Celestite SrSO4		Halite NaCl		Zinc Sulfide	
Temp (°F)	PSI	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ
80.00	14.00	1.51	26.15	1.84	2.22	4.94	13.58	3.37	20.39	0.00	0.00	0.00	0.00	0.00	0.00	14.02	15.05
88.00	157.00	1.51	26.14	1.76	2.21	4.86	13.58	3.41	20.39	0.00	0.00	0.00	0.00	0.00	0.00	13.83	15.05
97.00	300.00	1.52	26.18	1.68	2.20	4.79	13.58	3.45	20.39	0.00	0.00	0.00	0.00	0.00	0.00	13.66	15.05
106.00	443.00	1.54	26.23	1.61	2.19	4.74	13.58	3.49	20.39	0.00	0.00	0.00	0.00	0.00	0.00	13.51	15.05
115.00	585.00	1.55	26.28	1.54	2.19	4.69	13.58	3.53	20.39	0.00	0.00	0.00	0.00	0.00	0.00	13.36	15.05
124.00	728.00	1.57	26.33	1.48	2.18	4.65	13.58	3.57	20.39	0.00	0.00	0.00	0.00	0.00	0.00	13.22	15.05
133.00	871.00	1.59	26.39	1.43	2.17	4.62	13.58	3.61	20.39	0.00	0.00	0.00	0.00	0.00	0.00	13.09	15.05
142.00	1014.00	1.61	26.45	1.38	2.16	4.59	13.58	3.65	20.39	0.00	0.00	0.00	0.00	0.00	0.00	12.97	15.05
151.00	1157.00	1.63	26.50	1.33	2.15	4.57	13.58	3.69	20.39	0.00	0.00	0.00	0.00	0.00	0.00	12.86	15.05
160.00	1300.00	1.66	26.56	1.29	2.14	4.56	13.58	3.72	20.39	0.00	0.00	0.00	0.00	0.00	0.00	12.75	15.05
	1		NAME OF TAXABLE PARTY.	PERSONAL PROPERTY.	DEPOS PROGRAMMENT		CONTROL CONTROL	20 20 20 20 20 20			EMPRIMENTED !	H3 H3 H3 H3	AND DESCRIPTION OF THE PARTY OF			BOOK SERVICE AND ADDRESS OF THE PARTY OF THE	11 (19 (19 (19 (19 (19 (19 (19 (19 (19 (

	Cas emp SI °F) PSI	Ca		hydrate ~0.5H2O	State of the	Anhydrate CaSO4		Calcium Fluoride		Zinc Carbonate		.ead ulfide	600000000000	Mg licate	Ca Mg Silicate		500000000000000000000000000000000000000	Fe licate
Temp (°F)	PSI	SI	РТВ	SI	РТВ	SI	PTB	SI	PTB	SI	РТВ	SI	PTB	. SI	РТВ	SI	РТВ	
80.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00	3.61	195.35	0.00	0.00	1.05	7.28	0.43	3.96	11.10	21.78	
88.00	157.00	0.00	0.00	0.00	0.00	0.00	0.00	3.72	195.45	0.00	0.00	1.35	8.83	0.57	4.95	11.23	21.78	
97.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	3.84	195.66	0.00	0.00	1.70	10.66	0.76	6.21	11.42	21.79	
106.00	443.00	0.00	0,00	0.00	0.00	0.00	0.00	3.95	195.81	0.00	0.00	2.06	12.36	0.94	7.43	11.63	21.79	
115.00	585.00	0.00	0.00	0.00	0.00	0.00	0.00	4.06	195.93	0.00	0.00	2.43	13.92	1.14	8.58	11.84	21.80	
124.00	728.00	0.00	0.00	0.00	0.00	0.00	0.00	4.16	196.01	0.00	0.00	2.80	15.34	1.34	9.66	12.06	21.80	
133.00	871.00	0.00	0.00	0.00	0.00	0.00	0.00	4.26	196.07	0.00	0.00	3.17	16.60	1.54	10.66	12.28	21.80	
142.00	1014.00	0.00	0.00	0.00	0.00	0.00	0.00	4.35	196.11	0.00	0.00	3.54	17.72	1.74	11.57	12.51	21.80	
151.00	1157.00	0.00	0.00	0.00	0.00	0.00	0.00	4.44	196.14	0.00	0.00	3.92	18.68	1.94	12.38	12.75	21.81	
160.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	4.53	196.16	0.00	0.00	4.29	19.50	2.15	13.09	12.99	21.81	

Multi-Chem - A Halliburton Service

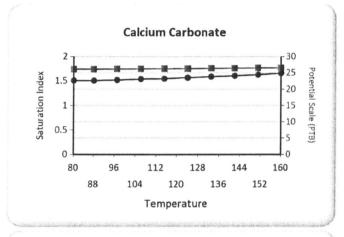
Friday, January 16, 2015

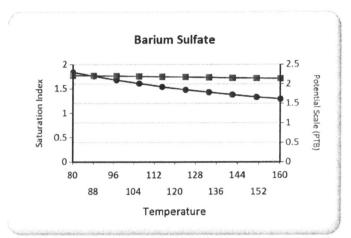
A HALLIBURTON SERVICE

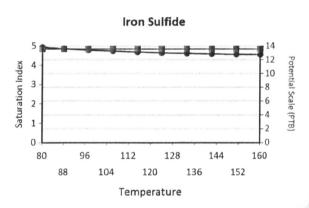
#### **Water Analysis Report**

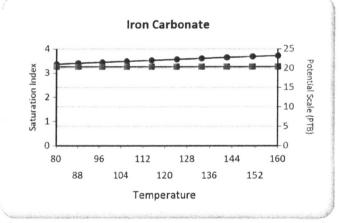
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Mg Silicate Ca Mg Silicate Fe Silicate

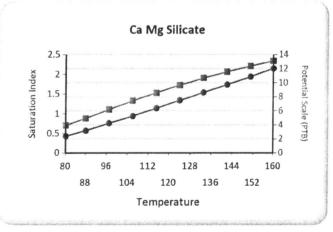
These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Mg Silicate Ca Mg Silicate Fe Silicate

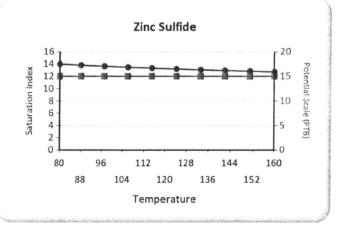












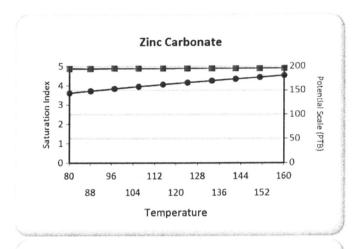
#### **Multi-Chem Analytical Laboratory**

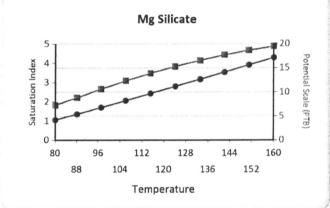
1553 East Highway 40 Vernal, UT 84078

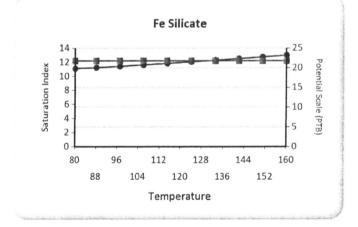


A HALLIBURTON SERVICE

#### Water Analysis Report









May 15, 2014

United States Environmental Protection Agency Region 8 1595 Wynkoop Street Denver, CO 80202-1129

RE:

Ref. 8ENF-UFO, Ute Tribal 21-12 Well

EPA Well ID #UT20736-06479

Mr. Chalfant:

In reference to your notice dated May 5, 2014, please consider this response as summary of our priority efforts to resolve the consistent mechanical integrity testing of the Ute Tribal 21-12 well; and to resolve EPA classification of this well as Temporarily Abandoned.

#### **Actions to Correct Situation**

The Ute Tribal 21-12 was scheduled for immediate mechanical integrity test upon receipt of your notice. The well passed a mechanical integrity test on May 16, 2014. Proof of the successful test is enclosed.

#### **Future Compliance**

Your notice prompted review of company internal processes that govern the monitoring and management of our injection schedule. A redundant review process was established to ensure future compliancy.

As we develop our Antelope Creek Field and explore possibility of expanding our enhanced recovery operations, this well will be evaluated and treated accordingly.

Sincerely.

Les Farnsworth, District Supervisor Petroglyph Operating Company, Inc.

Encl: MIT

Cc:

Gordon Howell, Chairman Uintah & Ouray Business Committee P.O. Box 190

Fort Duchesne, UT 84026

Manual Myore, Director of Energy Minerals and Air Programs

BLUE

CB!

P.O. Box 190 Fort Duchesne, UT 84026

GREEN

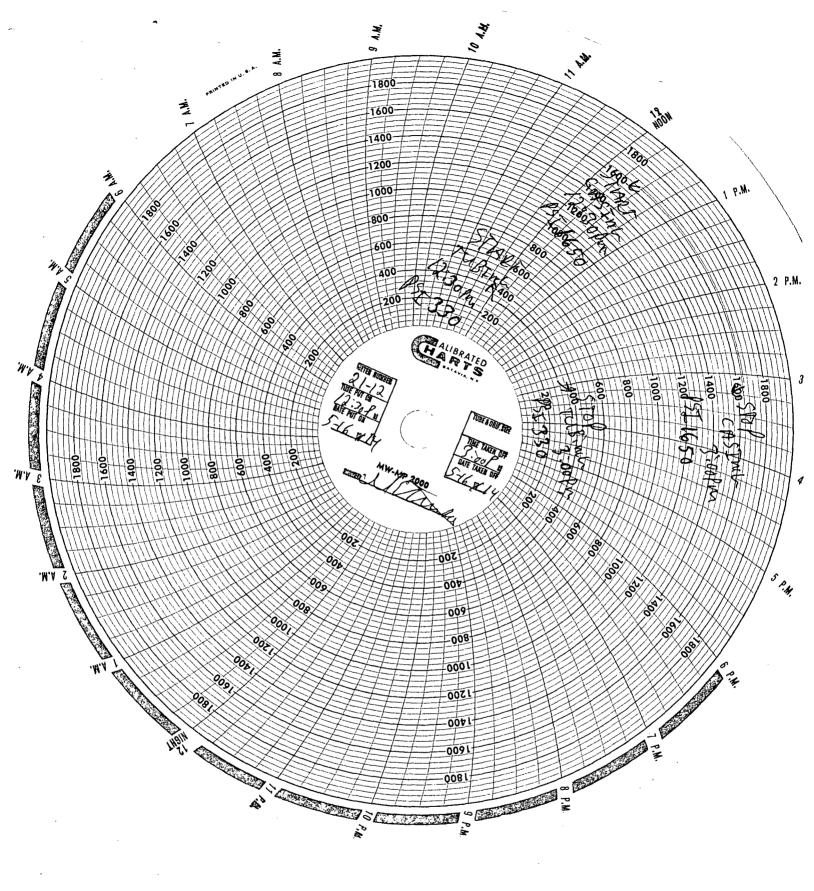
John Rogers Utah Division of Oil, Gas and Mining P.O. Box 145801 Salt Lake City, UT 84114

Ute Indian Tribe

# **Mechanical Integrity Test** Tubing/Casing Annulus Pressure Test U.S. Environmental Protection Agency Underground Injection Control Program 1595 Wynkoop Street, Denver, CO 80202

Test conducted by: CHANSTELLEWSON Others present:		
Well Name: <u>21-12</u> Field: <u>AMTELOPE CREEK</u> Location: <u>21-12</u> Sec: T N/S R	Type: ER SWD <b>Status: AC T</b> E/W County: <u><b>(</b>)</u>	A UC
Operator: PETROGLUPH ENERGY Last MIT: / / Maximum Allowab		PSIG
Regularly scheduled test? [ Initial test for permit? [ Test after well rework? [	] Yes [ ] No ] Yes [ ] No ] Yes [ ] No	
Well injecting during test? If Yes, rate: Pre-test annulus pressure:	<u>bpd</u> psig	

MIT DATA TABLE	Test #	1	Test #2	Test #3
TUBING			PRESSURE	RECORD
Initial Pressure	370	psig	psig	psig
End of test pressure	330	psig	psig	psig
CASING / TUBING	ANNULUS		PRESSURE	RECORD
0 minutes	1650	psig	psig	psig
5 minutes	1650	psig	psig i	psig
10 minutes	1650	psig	psig	psig
15 minutes	1650	psig	psig	psig
20 minutes	1650	psig	psig	psig
25 minutes	1650	psig	psig	psig
30 minutes	1650	psig	psig	psig
21/2 Huvgpinutes	(650	psig	psig	psig
minutes		psig	psig	psig
RESULT	[ ] Pass	[ ]Fail	[ ] Pass     [ ]Fail	[ ] Pass [ ]Fail



ا المحتوم - موسعه **≎EPA** 

United States Environmental Protection Agency Washington, DC 20460

<b>SELA</b>	ANNUAL DIS	POSAL/INJE	CTION	WELL	MONITORIN	G REPORT	
Name and Address of Ex Petroglyph Operating P.O. Box 7608 Boise, Idaho 83709		8	P	O. Box	ddress of Surface Ow 1 Tribe 70 sne, Utah 84026	ner	
Locate Well and O		State Utah			County Duchesne	Permit Nur UT2736-0	
	N	I have	Location De	***************************************	at SW 4/4 at Saat	on 21 Township 5S	3W
	<b>-├</b> -┆-┆-					quarter section and dr	
-+	╌┞╌┼╌┼╌	Surface	10804	(AUG) S	Line of quarter sect		
<b> </b>	-	Variables	Mother		ne of quarter section		
"	1 1 1	E Prompt	LL ACTIVITY	-1	TYPE OF PERM	п	
	<b>-</b>	区	Brine Dispos Enhanced Re	covery	Individual  X Area	ga-ranking representationing	
			Hydrocarbon		Number of Well		gina unadelitikan tri unmana kuwa kita inu unua rita tingga kana kana tinun anga kana kana kana kana kana kana
		Lea	se Name Ute	Indian T	ribe	Well Number UTE	TRIBAL 21-12
	S						
	INJECTION	PRESSURE	тот	AL VOLUN	IE INJECTED	TUBING CASING A	NNULUS PRESSURE ONITORING)
MONTH YEAR	AVERAGE PSIG	MAXIMUM PSIG	BBL		MCF	MINIMUM PSIG	MAXIMUM PSIG
January 13	501	521		0		0	0
February 13	470	472		0		0	0
March 13	450	455		0		0	0
April 13	434	442		0		0	0
May 13	417	428		0		0	0
June 13	394	411		0		0	0
July 13	386	394		0		0	0
August 13	373	382		0		0	0
September 13	369	374		0		0	0
October 13	357	362		0		0	0
November 13	352	351		0		0	0
December 13	309	404	2 - 14 - 15 - 17 - 17 - 17 - 17 - 17 - 17 - 17	0		0	0
attachments and t information is true	that, based on my inque, accurate, and compl	iry of those individual ete. I am aware that t	Is immediate	amiliar wit	sible for obtaining the	omitted in this docume a information, I believe false information, inc	that the
	and imprisonment. (R	ter. 40 CFR 144.32)	/				
Name and Official Title Chad Stevenson	***************************************		gnature	11		Da	te Signed 2/11/2014
EPA Form 7520-11 (Rev.	12-08 PEEN E	MALE CBI	1		UZE	3/2/14	
	Signature of the second of the	The second secon	Manual Constitution of Constit		Date Initia	30	

#### **Multi-Chem Analytical Laboratory**

1553 East Highway 40 Vernal, UT 84078

Units of Measurement: Standard



A HALLIBURTON SERVICE

#### Water Analysis Report

Production Company: PETROGLYPH ENERGY INC

Well Name: Sample Point: **UTE TRIBAL 21-12 INJ** 

Wellhead

Sample Date: Sample ID:

1/8/2014

WA-262983

Sales Rep: James Patry Lab Tech: Gary Winegar

> Scaling potential predicted using ScaleSoftPitzer from Brine Chemistry Consortium (Rice University)

Sample Specifics	3	
Test Date:	1/15/2014	Cations
System Temperature 1 (°F):	180	Sodium (Na):
System Pressure 1 (psig):	1300	Potassium (K):
System Temperature 2 (°F):	60	Magnesium (Mg):
System Pressure 2 (psig):	15	Calcium (Ca):
Calculated Density (g/ml):	1.001	Strontium (Sr):
pH:	7.70	Barium (Ba):
Calculated TDS (mg/L):	5871.53	Iron (Fe):
CO2 in Gas (%):		Zinc (Zn):
Dissolved CO <sub>2</sub> (mg/L)):	0.00	Lead (Pb):
H <sub>2</sub> S in Gas (%):		Ammonia NH3:
H2S in Water (mg/L):	1.00	Manganese (Mn):

	Analysis @ Prop	perties in Sample Specifics	
Cations	mg/L	Anions	mg/L
Sodium (Na):	2108.04	Chloride (CI):	3000.00
Potassium (K):	15.00	Sulfate (SO <sub>4</sub> ):	55.00
Magnesium (Mg):	17.00	Bicarbonate (HCO3):	610.00
Calcium (Ca):	23.00	Carbonate (CO <sub>3</sub> ):	
Strontium (Sr):	1.80	Acetic Acid (CH3COO)	
Barium (Ba):	3.00	Propionic Acid (C2H5COO)	
Iron (Fe):	28.00	Butanoic Acid (C3H7COO)	
Zinc (Zn):	0.51	Isobutyric Acid ((CH3)2CHCOO)	
Lead (Pb):	0.08	Fluoride (F):	
Ammonia NH3:		Bromine (Br):	
Manganese (Mn):	0.90	Silica (SiO2):	9.20

#### Notes:

B=2.3Al=2 Li=.47 \*\*\*\*\*\*Re: Ci and SO4-checked water with very little residue from bottle\*\*\*\*\*\*

(PTB = Pounds per Thousand Barrels)

			cium oonate	Barium	Sulfate		ron Ilfide		on oonate		osum 4·2H2O		estite SO4		alite aCl		Zinc ulfide
Temp (°F)	PSI	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	PTB	SI	РТВ	SI	PTB	SI	РТВ
60.00	14.00	0.02	0.41	1.27	1.69	3.03	0.91	1.83	19.55	0.00	0.00	0.00	0.00	0.00	0.00	9.77	0.27
73.00	157.00	0.00	0.09	1.13	1.65	2.86	0.91	1.86	19.61	0.00	0.00	0.00	0.00	0.00	0.00	9.44	0.27
86.00	300.00	0.05	0.91	1.00	1.60	2.79	0.91	1.96	19.76	0.00	0.00	0.00	0.00	0.00	0.00	9.20	0.27
100.00	443.00	0.10	1.86	0.89	1.55	2.73	0.91	2.06	19.88	0.00	0.00	0.00	0.00	0.00	0.00	8.99	0.27
113.00	585.00	0.16	2.93	0.79	1.49	2.69	0.91	2.15	19.98	0.00	0.00	0.00	0.00	0.00	0.00	8.80	0.27
126.00	728.00	0.22	4.10	0.71	1.43	2.67	0.91	2.25	20.06	0.00	0.00	0.00	0.00	0.00	0.00	8.63	0.27
140.00	871.00	0.28	5.36	0.64	1.36	2.66	0.91	2.34	20.12	0.00	0.00	0.00	0.00	0.00	0.00	8.48	0.27
153.00	1014.00	0.36	6.68	0.58	1.30	2.67	0.91	2.44	20.17	0.00	0.00	0.00	0.00	0.00	0.00	8.35	0.27
166.00	1157.00	0.43	8.04	0.53	1.24	2.69	0.91	2.53	20.21	0.00	0.00	0.00	0.00	0.00	0.00	8.23	0.27
180.00	1300.00	0.51	9.41	0.49	1.20	2.72	0.91	2.62	20.24	0.00	0.00	0.00	0.00	0.00	0.00	8.12	0.27

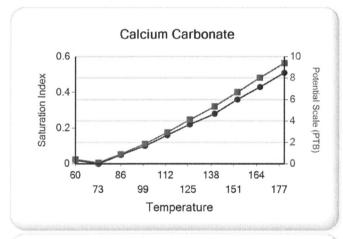
Ethics

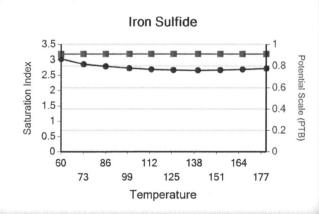


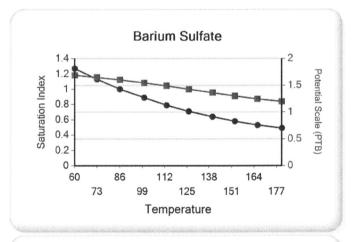
		CaSO	hydrate 4~0.5H2 O		ydrate SO4		cium oride		inc oonate		ead Ilfide		/Ig- icate		Mg cate		-e cate
Temp (°F)	PSI	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	PTB
60.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.50	0.03	0.00	0.00	0.00	0.00	4.60	8.94
73.00	157.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.99	0.03	0.00	0.00	0.00	0.00	4.65	8.97
86.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.59	0.03	0.00	0.00	0.00	0.00	5.09	9.31
100.00	443.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.21	0.03	0.00	0.00	0.00	0.00	5.56	9.57
113.00	585.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.06	9.88	0.03	0.00	0.00	0.00	0.00	6.06	9.74
126.00	728.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.16	9.57	0.03	0.00	0.00	0.00	0.00	6.58	9.85
140.00	871.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.22	9.29	0.03	0.00	0.00	0.00	0.00	7.12	9.91
153.00	1014.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.26	9.04	0.03	0.00	0.00	0.00	0.00	7.67	9.94
166.00	1157.00	0.00	0.00	0.00	0.00	0.00	0.00	0.78	0.28	8.81	0.03	0.48	1.51	0.00	0.00	8.23	9.96
180.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93	0.30	8.59	0.03	1.21	3.77	0.00	0.00	8.79	9.97

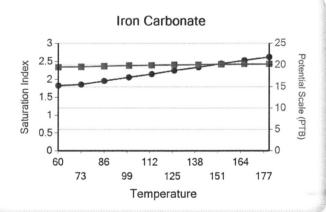
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Lead Sulfide Fe Silicate

These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide Mg Silicate Fe Silicate



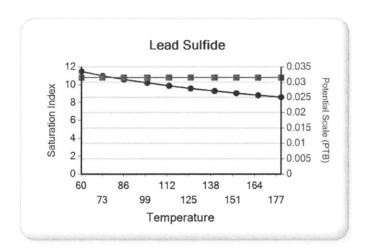


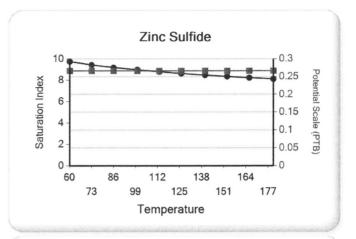


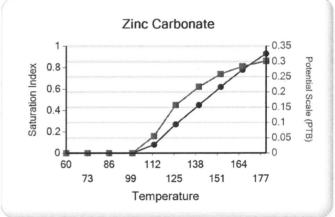


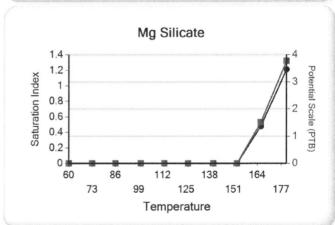
# multi-chem

#### Water Analysis Report









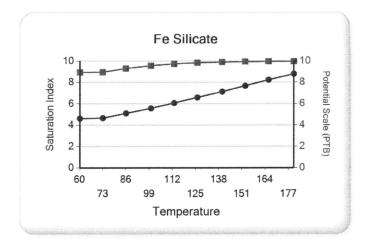
Ethics

## **Multi-Chem Analytical Laboratory** 1553 East Highway 40 Vernal, UT 84078

multi-chem<sup>\*</sup>

Water Analysis Report







## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8
999 18<sup>TH</sup> STREET - SUITE 300
DENVER, CO 80202-2466
Phone 800-227-8917
http://www.epa.gov/region08

JUN 30 2005

Ref: 8P-W-GW

## <u>CERTIFIED MAIL</u> RETURN RECEIPT REQUESTED

Michael Hackney, Geologist Petroglyph Energy 555 S Cole Road PO Box 7608 Boise, ID 83707

> RE: Final Authorization to Inject EPA UIC Permit No. UT20736-06479

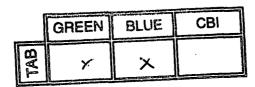
Ute Tribal 21-12

Dear Mr. Hackney:

On January 25, 2005, Petroglyph Energy (Petroglyph) was authorized for an initial, limited period of injection into the Ute Tribal 21-12 enhanced oil recovery injection well for the purpose of stabilizing the injection formation pressure prior to demonstrating External MI, considered necessary because the proposed injection zone was underpressured due to previous oil production and the tests rely on stable formation pressure. On June 9, 2005, Petroglyph submitted results of the required demonstration of Part II (External) Mechanical Integrity (External MI). This External MI demonstration was made by submitting the results of a radioactive tracer survey (RTS) run on June 2, 2005.

EPA has reviewed, and approves, the results of this demonstration of External MI. Therefore, effective upon your receipt of this letter, authorization hereby is granted for continued injection into the Ute Tribal No. 21-12 enhanced recovery injection well under the conditions of Authorization for Additional Well UT20736-06479 and EPA UIC Area Permit UT20736-00000 and relevant modifications as issued. Further, the RTS was run at a maximum tubing pressure of 1850 psi and thus demonstrated External MI at that pressure. Therefore, the Director has determined that the maximum allowable surface injection pressure (MAIP) for the Ute Tribal No. 21-12 is 1850 psi.

Please be reminded that it is the responsibility of the owner/operator to be aware of, and to comply with, all conditions of <u>Authorization for Additional Well UT20736-06479</u> and EPA UIC Area Permit UT20736-00000 and relevant modifications as issued.





If you have any questions regarding this Authorization, please call Dan Jackson of my staff at (303) 312-6155. For questions regarding notification, testing, monitoring, reporting or other Permit requirements, the UIC Technical Enforcement Program may be reached by calling (800) 227-8917.

Sincerely,

Tracy M. Eagle

Director

Ground Water Program

cc: Maxine Natchees, Chairperson
Uintah & Ouray Business Committee
Ute Indian Tribe
P.O. Box 190
Fort Duchesne, UT 84026

Elaine Willie Environmental Coordinator Ute Indian Tribe PO Box 460 Fort Duchesne, Utah 84026

Mr. William Stringer, Manager U.S. Bureau of Land Management Vernal Field Office 170 South 500 East Vernal, Utah 84078

Mr. Chester Mills, Superintendent U.S. Department of the Interior Bureau of Indian Affairs Uintah and Ouray Agency P.O. Box 130 Fort Duchesne, UT 84026

Mr. Gilbert Hunt Acting Associate Director Utah Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210 PO Box 145801 Salt Lake City, Utah 84114 bcc: N.Wiser, 8ENF-UFO

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000	Restricted Delivery Fee (Endorsement Required)		
	Total Postage & Fees	\$	
Ш	Sent To	Michael Harl	
	Street, Apt. No.;	Michael Hackney, Go Petroglyph Energy	
-7	or PO Box No.	333 S Cole Road PO	Box 7608
7001	City, State, ZIP+4	Boise, ID 83707	
1	PS Form 3800, January 2	001	See Reverse for Instructions

UIC Number: UT20736	Operator: Petroslyph										
To:	Requested Action:	Mailcode	Initials	D							
Originator.	phone: 455	8P-W-GW	Bry	6/2							
UIC Review	D DWJ CT	8P-W-GW									
K Bartholow, Admin	proof	8P-W-GW	KB	6/							
S Stavnes, Dir, GWP	□ concur (□ signature	8P-W-GW	DNY	6/							
L Johnson, Admin	proof	8P-W	V	<u> </u>							
D Thomas, Dir, WP	□ concur □ signature	8P-W									
M Brennan, Admin	proof	8-P		-							
S Tuber, ARA, OPRA	signature	8-P									
K Bartholow, Admin	date stamp & mail original letter & copy of docs to Addressee	8P-W-GW									
Originator	make CC: copies	8P-W-GW									
J-Taylor	send Public Notice	8P-W-GW		_							
K Bartholow, Admin	mail copies to CC's	8P-W-GW	KB	6/							
Originator	File documents	8P-W-GW									
	RIGHT SIDE  Response Letter  Int information  Note: The state of the s										
COMMENTS:											



# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8 999 18<sup>™</sup> STREET - SUITE 300 DENVER, CO 80202-2466 Phone 800-227-8917 http://www.epa.gov/region08

JUN 3 0 2005

Ref: 8P-W-GW

<u>CERTIFIED MAIL</u> RETURN RECEIPT REQUESTED **CONCURRENCE COPY** 

Michael Hackney, Geologist Petroglyph Energy 555 S Cole Road PO Box 7608 Boise, ID 83707

RE: Final Authorization to Inject

EPA UIC Permit No. UT20736-06479

Ute Tribal 21-12

Dear Mr. Hackney:

On January 25, 2005, Petroglyph Energy (Petroglyph) was authorized for an initial, limited period of injection into the Ute Tribal 21-12 enhanced oil recovery injection well for the purpose of stabilizing the injection formation pressure prior to demonstrating External MI, considered necessary because the proposed injection zone was underpressured due to previous oil production and the tests rely on stable formation pressure. On June 9, 2005, Petroglyph submitted results of the required demonstration of Part II (External) Mechanical Integrity (External MI). This External MI demonstration was made by submitting the results of a radioactive tracer survey (RTS) run on June 2, 2005.

EPA has reviewed, and approves, the results of this demonstration of External MI. Therefore, effective upon your receipt of this letter, authorization hereby is granted for continued injection into the Ute Tribal No. 21-12 enhanced recovery injection well under the conditions of Authorization for Additional Well UT20736-06479 and EPA UIC Area Permit UT20736-00000 and relevant modifications as issued. Further, the RTS was run at a maximum tubing pressure of 1850 psi and thus demonstrated External MI at that pressure. Therefore, the Director has determined that the maximum allowable surface injection pressure (MAIP) for the Ute Tribal No. 21-12 is 1850 psi.

Please be reminded that it is the responsibility of the owner/operator to be aware of, and to comply with, all conditions of <u>Authorization for Additional Well UT20736-06479</u> and EPA UIC Area Permit UT20736-00000 and relevant modifications as issued.

BP-W-6W VIC 2

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If you have any questions regarding this Authorization, please call Dan Jackson of my staff at (303) 312-6155. For questions regarding notification, testing, monitoring, reporting or other Permit requirements, the UIC Technical Enforcement Program may be reached by calling (800) 227-8917.

Sincerely,

Tracy M. Eagle Director Ground Water Program

cc: Maxine Natchees, Chairperson
Uintah & Ouray Business Committee
Ute Indian Tribe
P.O. Box 190
Fort Duchesne, UT 84026

Elaine Willie
Environmental Coordinator
Ute Indian Tribe
PO Box 460
Fort Duchesne, Utah 84026

Mr. William Stringer, Manager U.S. Bureau of Land Management Vernal Field Office 170 South 500 East Vernal, Utah 84078

Mr. Chester Mills, Superintendent
U.S. Department of the Interior
Bureau of Indian Affairs
Uintah and Ouray Agency
P.O. Box 130
Fort Duchesne, UT 84026

Mr. Gilbert Hunt Acting Associate Director Utah Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210 PO Box 145801 Salt Lake City, Utah 84114 bcc: N.Wiser, 8ENF-UFO